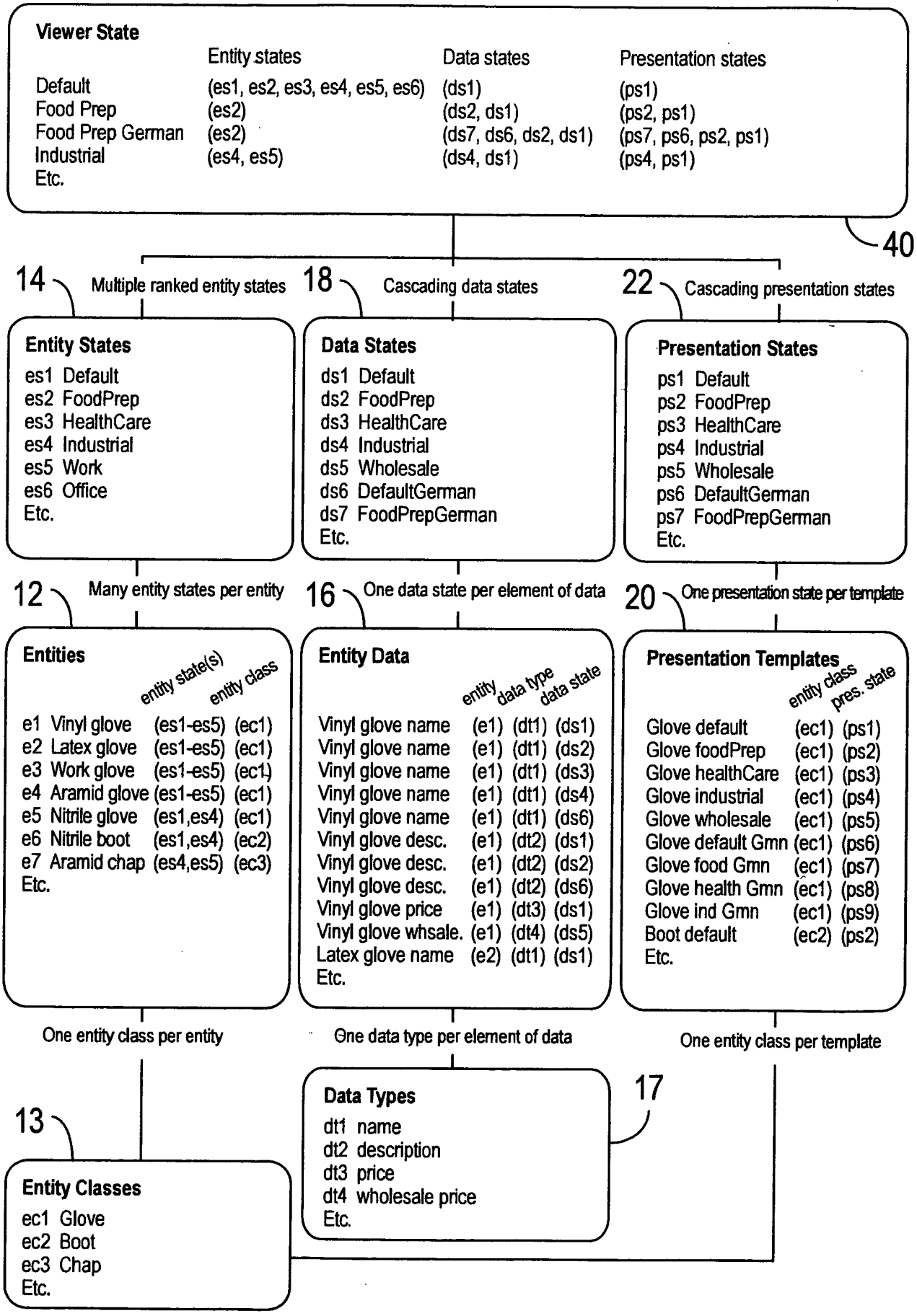
DEC 12 2005
PATENT & TRADEMARK OFFICE

Glove Data Overview (how Viewer States Relate to the Data) 10

Figure 1



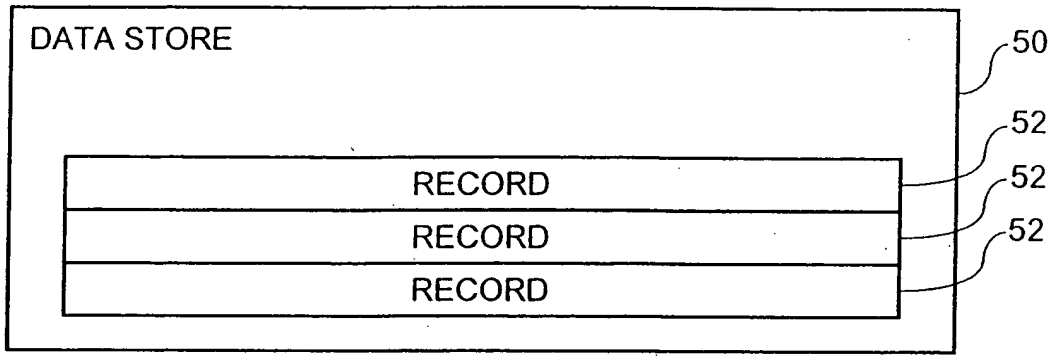


Figure 2

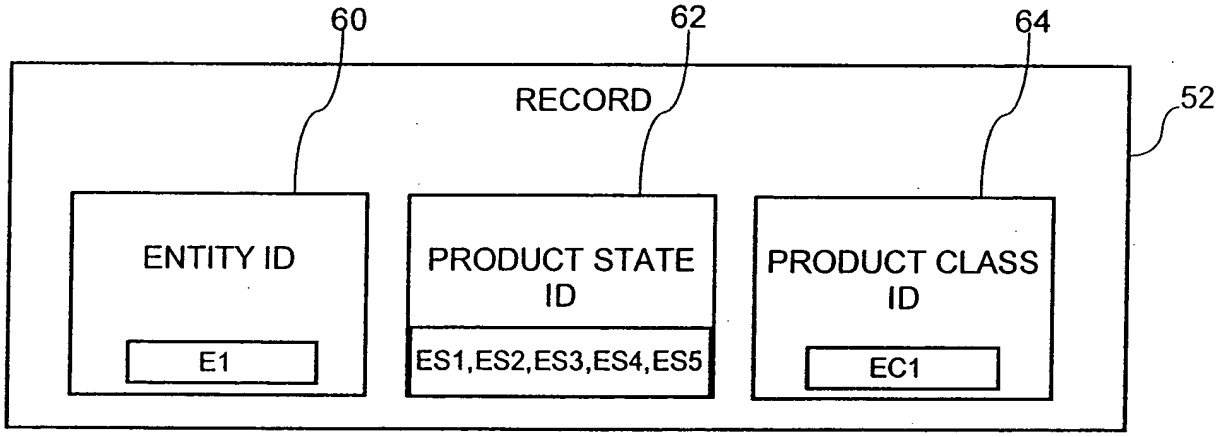


Figure 3

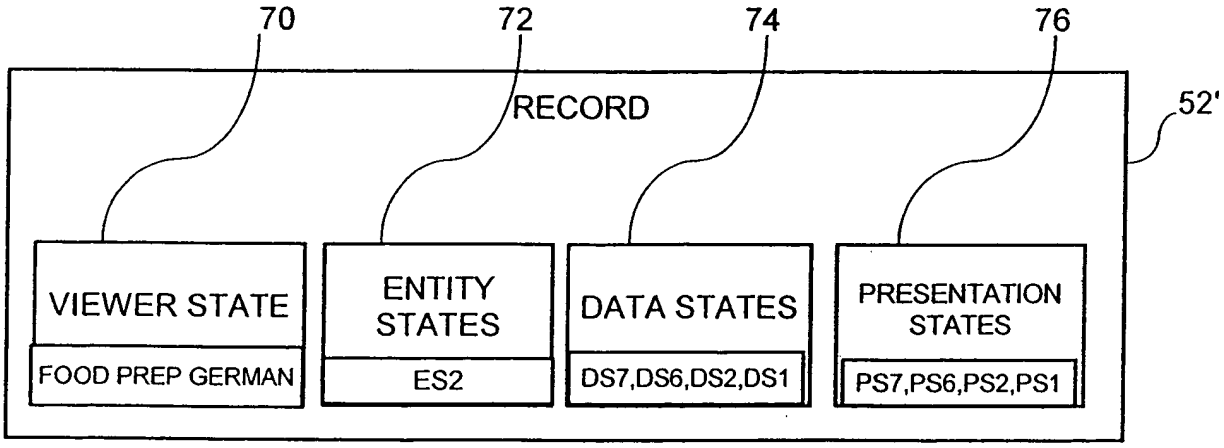
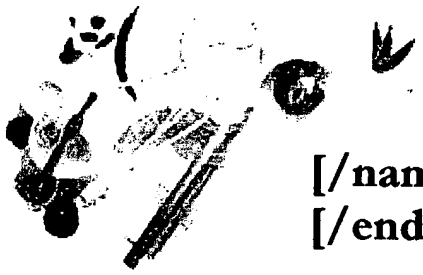


Figure 4



[/caption]
Super cool gloves for you
[/end]

[/name]Nitrile gloves A109 series [/end]

[/description]We just love these gloves. They are our favorite gloves. We wear them to bed, to breakfast, to lunch, to dinner, and even during exams (they're impervious to biohazards!). Pick up a pair or two today.[/end]

Prod.#	*Color*	*Price*
[/beginTable] *[/productNumber]* *A109.1[/end]*	*[/color]blue* *[/end]*	[/price] $12.95[/end]

Size: [/size]Medium[/end] [/endTable]

[/note]Buy some today:[/end] *([/productNumber]A109.1[/end])*

Product image

audio video

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Figure 6

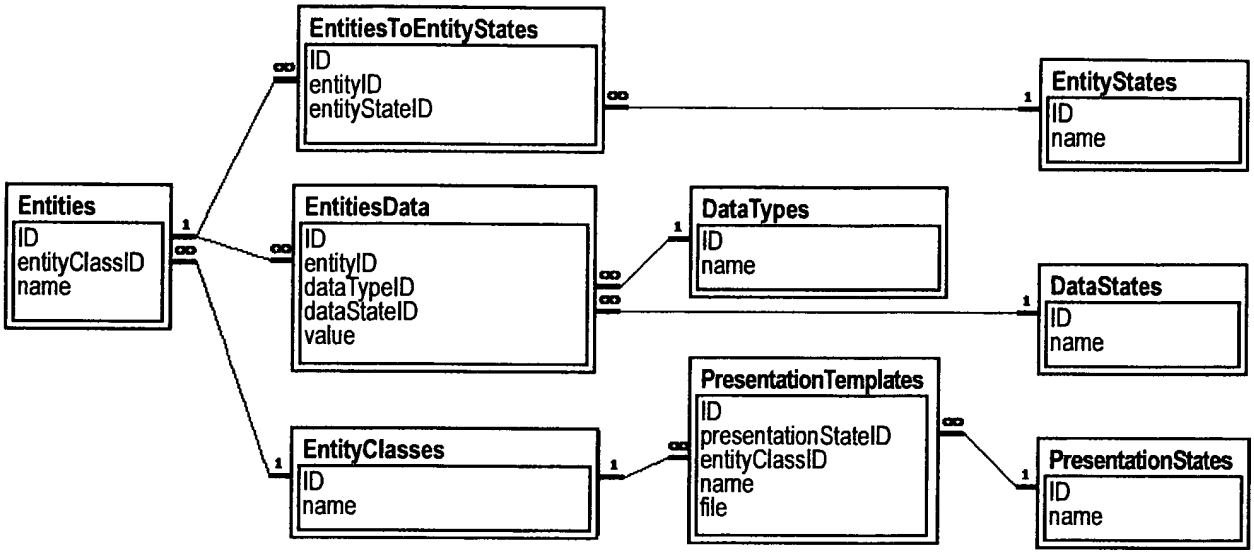


Figure 7

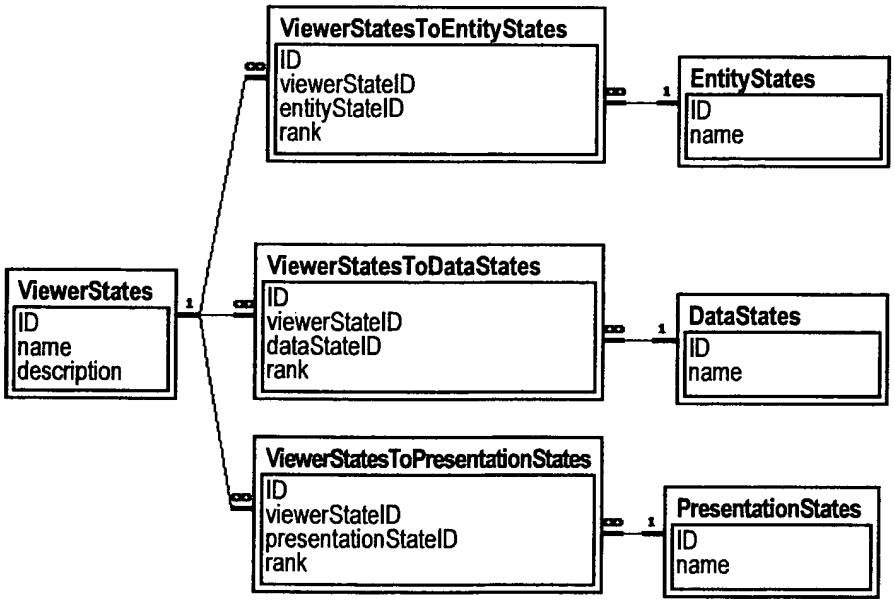
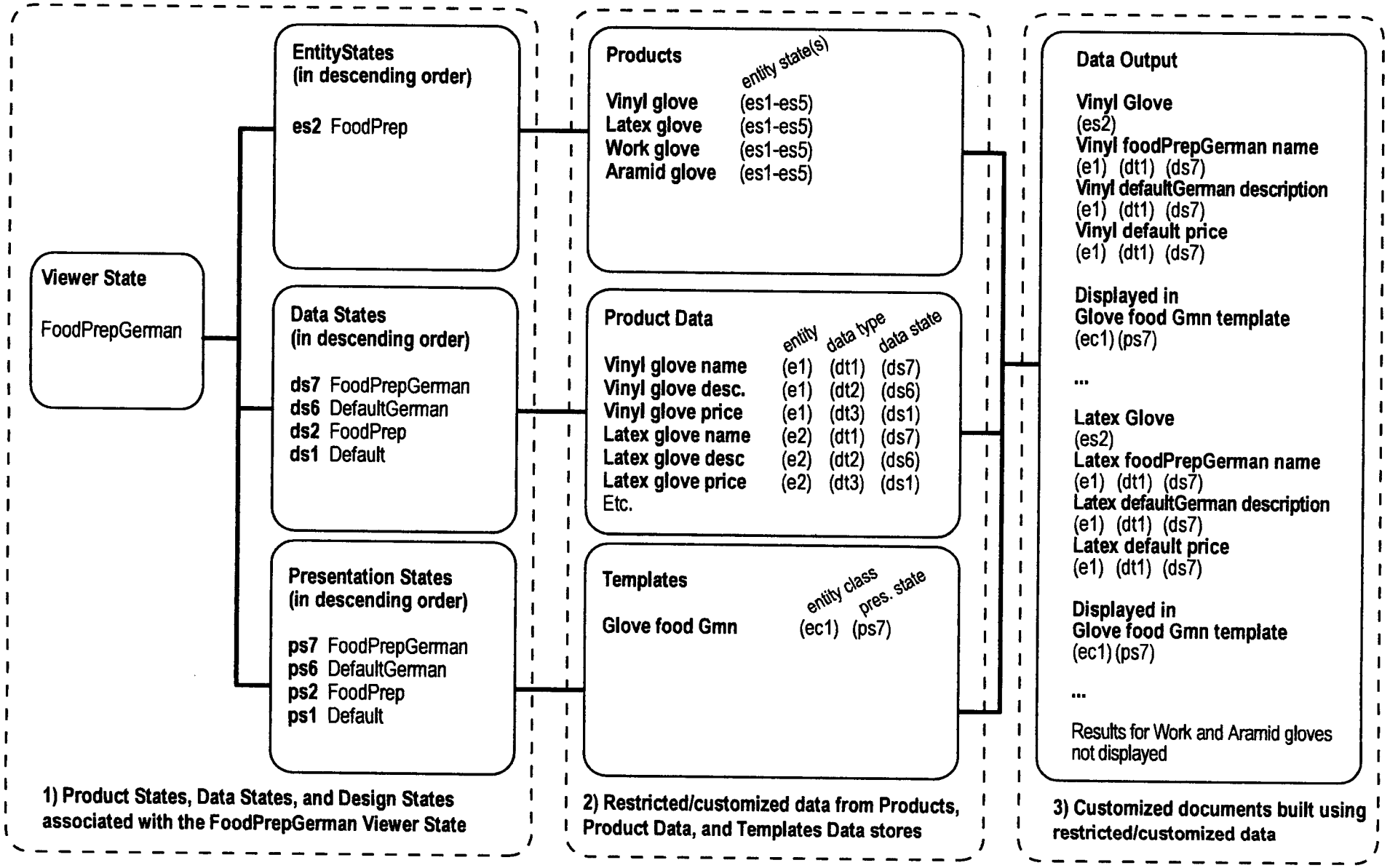


Figure 8

Glove Data Example (how information is created for the FoodPrepGerman viewer state)

Figure 5



Method and Apparatus for Viewer-Specific Presentation of Information
John M. Crawford, Jr.
Application No. 09/671,431

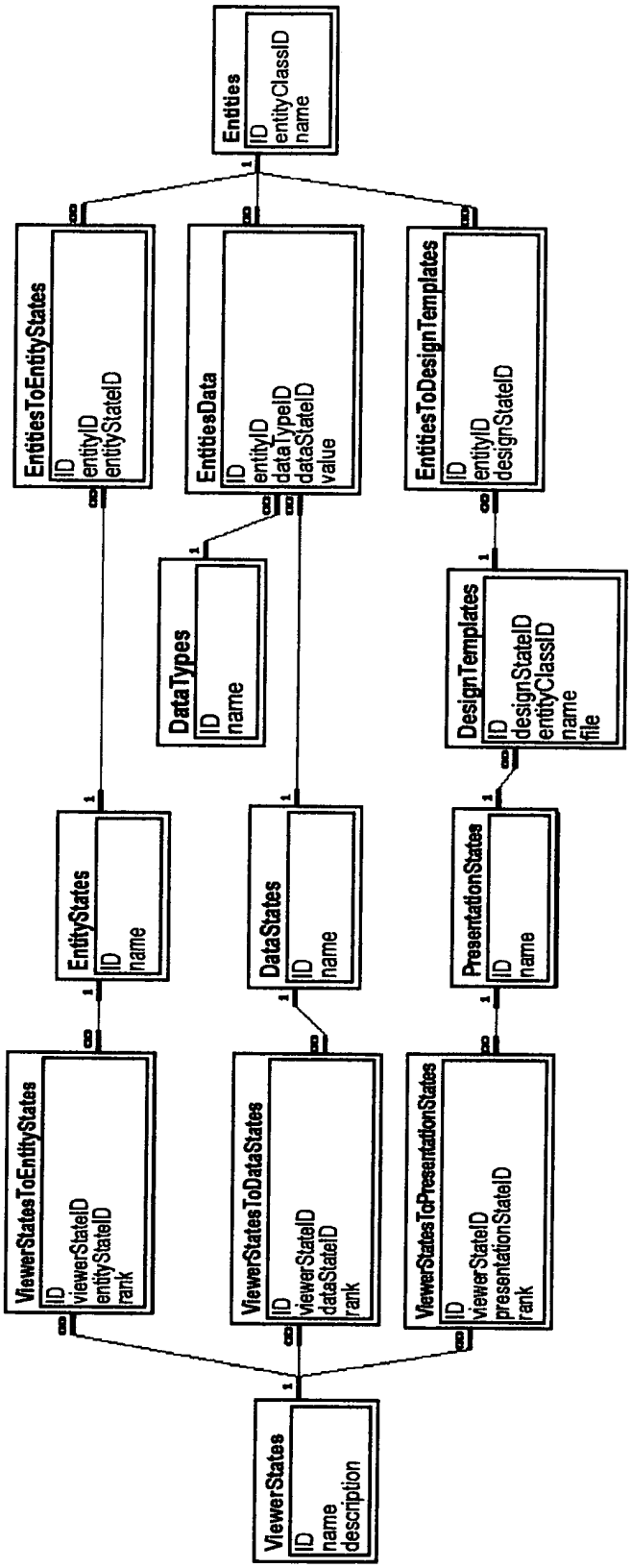

Entities
ID
entityClassID
name
EntitiesToEntityStates
ID
entityID
entityStateID
EntitiesData
ID
entityID
dataTypeID
dataStateID
value
EntitiesToDesignTemplates
ID
entityID
designStateID
DataTypes
ID
name
DesignTemplates
ID
designStateID
entityClassID
name
file
EntityStates
ID
name
DataStates
ID
name
PresentationStates
ID
name
ViewerStatesToEntityStates
ID
viewerStateID
entityStateID
rank
ViewerStatesToDataStates
ID
viewerStateID
dataStateID
rank
ViewerStatesToPresentationStates
ID
viewerStateID
presentationStateID
rank
ViewerStates
ID
name
description

Figure 9

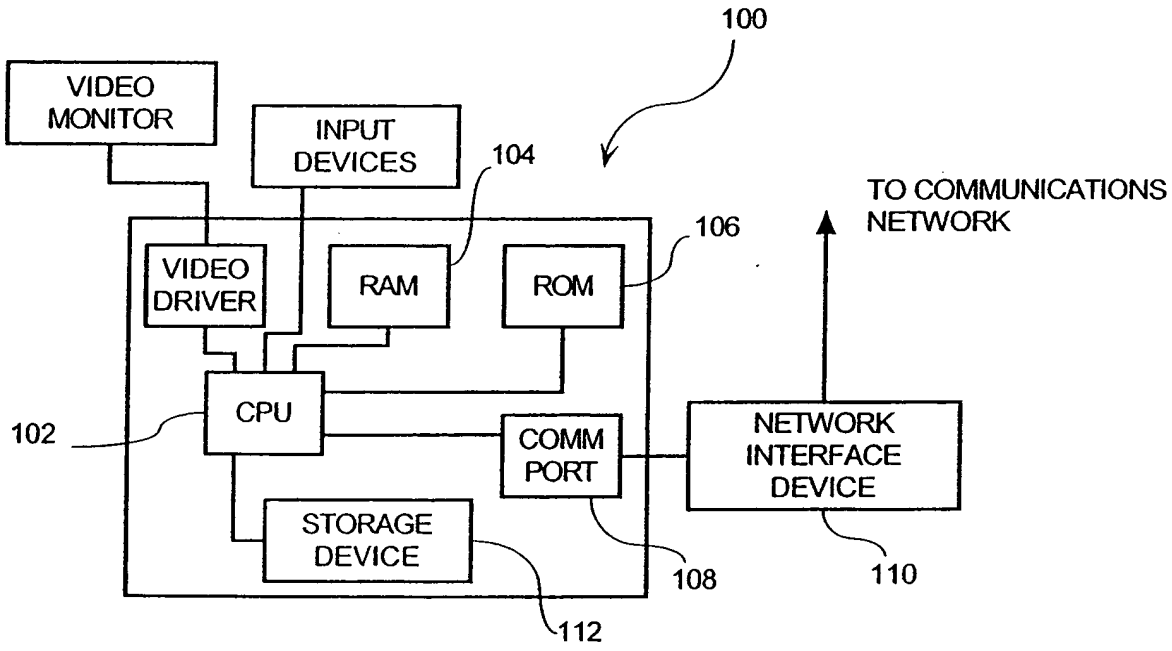

100
VIDEO MONITOR
INPUT DEVICES
104
TO COMMUNICATIONS NETWORK
106
VIDEO DRIVER
RAM
ROM
CPU
102
COMM PORT
NETWORK INTERFACE DEVICE
STORAGE DEVICE
108
110
112

FIGURE 10

Data Display Steps (how the system creates a document describing a specific entity)

Figure 11

1) Viewer State Creation

Viewer state is created, assigning to the state:

1) Ranked entity states
2) Cascading data states
3) Cascading presentation states

Viewer state is either created ahead of time by system administrator, or dynamically by logic external to the system.

2) Viewer State Selection

Viewer state is assigned to current viewer using logic external to the system, thereby linking viewer to the collection of entity states, data states, and presentation states associated with the viewer state.

Viewer state can be known ahead of time, such as with a known customer, can be chosen by the viewer during the viewing process, our could be determined given viewer demographics purchase histories, etc.

3) Viewer Document Request

Viewer requests a a document on a specific entity from a list of entity documents created during the data search portion of system operaion.

See the related "Data Search Steps" flow chart for more information on how data searches are performed.

4) Base Conditions Creation

System examines the viewer's viewer state and creates a means of extracting all related data from Entities and EntitiesData data stores.

The product of this step is a subset of data from the data stores where:

1) Elements of data related to the specified entity are selected from the EntitiesData data store related to each entity. The most appropriate data element for each dataType for each Entity will be selected according to the cascading data states associated with the viewerState.

The result is a data set, or a query that defines a data set, where the most appropriate data describing the entity has been found.

5) Template Selection

An output template is selected from the PresentationTemplates data store according to the cascading PresentationStates associated with the ViewerState.

6) Document Creation

A document is created from the selected PresentationTemplate.

The system searches through the template locating tags that specify which DataTypes will be displayed. When a tag is found, the system examines the result set from the Base Conditions Creation step, and if data is found for that data type, inserts the data into the document.

The process continues until all tags have been examined.

7) Display Document

The output document created in the previous step is displayed to the viewer.

Data Search Steps (how the system returns a list of entities in response to a viewer query)

Figure 12

1) Viewer State Creation

Viewer state is created, assigning to the state:

1) Ranked entity states
2) Cascading data states
3) Cascading presentation states

Viewer state is either created ahead of time by system administrator, or dynamically by logic external to the system.

2) Viewer State Selection

Viewer state is assigned to current viewer using logic external to the system, thereby linking viewer to the collection of entity states, data states, and presentation states associated with the viewer state.

Viewer state can be known ahead of time, such as with a known customer, can be chosen by the viewer during the viewing process, our could be determined given viewer demographics purchase histories, etc.

3) Viewer Information Request

Viewer requests a list of one or more entities from the system.

This request could eiher be for all entities of interest to the viewer (as determined by the viewer states), or be for a subset of entities as determined by search parameters, e.g., gloves available in the color red.

4) Base Conditions Creation

System examines the viewer's viewer state and creates a means of extracting all related data from Entities and EntitiesData data stores.

The product of this step is a subset of data from the data stores where:

1) Entities are restricted to the entities related to the entityStates associated with the viewerState.

2) Entties are ranked according to the order of the entityStates assoicated with the viewerState.

3) Elements of data related to each entity are selected from the EntitiesData data store related to each entity. The most appropriate data element for each dataType for each Entity will be selected according to the cascading data states associated with the viewerState.

The resule is a data set, or a query that defines a data set, where entities and data describing enties has been ranked and/or restricted according to conditions set up in the viewerState.

5) Search

If the user does not specify any search criteria, this step is skipped.

If the user does specify search criteria, these criteria are then applied to the base conditions result set generated in the previous step. Searches are therefore not performed against raw data, but are performed against result sets that have already been customized to the viewer state.

When working with a SQL database, the base conditions result set may exist as a query instead of a true result set. Searches will then be performed against the query.

When working with other data storage mechanisms, true result set generation may be required in the previous step.

6) Display results

A list of entities is displayed to the viewer for examination and selection.

Individual documents describing entities are presented only after a specific entity has been selected.

See the related "Data Display Steps" flow chart.

Great all-purpose disposable glove

General vinyl food gloves

Great for most general purpose sanitary food handling work, these gloves are constructed from a sturdy 4 mil vinyl. Ideal for any situaiton that demands a fast-on fast-off disposable glove.

Prod.#	*Color*	*Price*
112003	*natural*	$7.60
		Size: Large

Reversable ambidextrous gloves fit either right or left hands *(112003)*

audio video

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Figure 13

Sehr guter universeller Einweghandschuh

Universell eincusetzender Vinyl Handschuh

Dieser zweiteilige, beidseitig zu tragender, gemusterte fuselfreie Handshuh ist 9" lang. Strapazierfaehiger als Baumwolle, laeuft beim Waschen nicht ein. Mehrfacher Gebrauch. Handschuh wird meist in der Pharma- und Electro lindustrie eingesetzt.

Art.-Nr.	***Farbe***	***Preis***
112003	*natur*	€7.79
		Groesse: Large

Strapazierfaehiger als Baumwolle, laeuft beim Waschen nicht ein. Mehrfacher Gebrauch *(112003)*

audio video

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Figure 14

Vinyl barrier gloves

Great all-purpose disposable glove

Useful for biohazard protection where tactile response is not essential, these gloves are constructed from a sturdy 4 mil vinyl. Ideal for any situation that demands a fast-on fast-off disposable glove.

Prod.#	*Color*	*Price*
112003	*natural*	$8.40
		Size: Large

Reversible ambidextrous gloves fit either right or left hands *(112003)*

audio video

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Figure 15